

# **EXHIBIT C**

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**From:** Ercolini, Michael <mercolini@princetonobel.com>  
**Sent:** Tuesday, April 6, 2021 11:56 PM  
**To:** kvp-singular; wgs-singularv.google@wolfgreenfield.com; abhansali@kblfirm.com  
**Cc:** singular@princetonobel.com  
**Subject:** -12551 Singular Select Email Hit Counts  
**Attachments:** 2021-04-07 (-12551) Email Hit Counts for Selected Terms.pdf

[EXTERNAL]

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Counsel,

We are attaching email hit counts for 115 of the 476 disaggregated search terms that Google recently served for Joseph Bates. We are also including hit counts for 5 of the 466 disaggregated terms Google served for Mssrs. Arnold, Steyck and Beal. As for the remaining disaggregated terms, we are in the process of reviewing emails responsive to those terms and will be producing them to Google on a rolling basis subject to our review.

As requested, we have removed a number of large family attachments consisting of program files from the searches, as reflected in these counts. Of course, this fails to resolve the central issues we continue to have with Google's requests, which evince a clear intent to abuse this process by maximizing Singular's review and production efforts, without regard for proportionality, and to use this as an unprecedented excuse refusing to produce Google's own witnesses.

While Singular will agree to work with Google on a modest proposal for some of these remaining terms, we will not continue to entertain requests of the nature we have received thus far. This includes at least the following non-exhaustive list of inappropriate requests:

-Blueshift: the name of Singular's prosecution firm, found in its email address domain and in signature lines. Effectively, this amounts to a request for all emails from Singular to its prosecution counsel over ten years. As you already know, Singular owns several times as many patents as the three that are currently in suit. We will not produce in response to this term, and do not expect that Google can find a suitable set of delimiters to cure the problem. The same goes for the term Plotkin.

-Terms common to non-asserted patent specifications: Google has requested emails responsive to terms used throughout the specifications for several non-asserted patents. This amounts to a request for emails concerning the prosecution of every United States patent owned by Singular, and a large proportion of foreign patents. Unless Google will delimit these terms to specific issues in this case, we will not produce in response to them.

-Intrinsix, MIT, Hammerstrom, DARPA, Stecyk, Kent, etc: these amount to wholesale email and/or email domain requests. We will not produce in response to them. Please suggest appropriate delimiters concerning specific issues if you wish Singular to respond to these terms.

Singular intends to complete its review and production of emails by early May. If Google wishes to revise any of these remaining terms, please provide final terms no later than Monday, April 12. Please be advised, however, that as Singular is currently reviewing and producing in response to over 300 separate terms (reaching several thousand emails), we do not intend to entertain more than 20 additional disaggregated search terms. Moreover, should any of those final requests be intended, as many of Google's prior terms have been, to end run the "narrowly tailored to specific issues" requirement, we do not intend to respond to those terms. Google has had ample time since it served its requests to meet the letter and spirit of this requirement for email requests, and we have repeatedly insisted that Google do so. Instead, Google has continually broadened its terms and employed tactics designed to sweep as many emails as possible into Singular's review, requesting terms such as "patent" and the name of the producing company or custodian.

Please let us know if you have any questions and we look forward to receiving Google's final terms and to closing this process out very soon.

Best regards,

**Michael J. Ercolini**

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**Joseph Bates – Custodial Email Search Results**

| <b>Term</b>                   | <b>Email Hit Count</b> | <b>Hit Count (with Family)</b> |
|-------------------------------|------------------------|--------------------------------|
| "APE"                         | 4,191                  | 9,944                          |
| "Charles River"               | 6,080                  | 7,119                          |
| "CRA"                         | 6,565                  | 8,280                          |
| "DOD"                         | 2,348                  | 3,457                          |
| "DOE"                         | 328                    | 1,783                          |
| "input signal*"               | 1,145                  | 2,408                          |
| "MAD-HATTER"                  | 1,156                  | 1,559                          |
| "MIT"                         | 16,290                 | 23,457                         |
| "processing element*"         | 2,817                  | 8,828                          |
| (dep* pre/2 defense)          | 503                    | 1,154                          |
| (dep* W/2 defense)            | 554                    | 1,214                          |
| (dep* W/2 energy)             | 213                    | 1,525                          |
| (evaluat* w/5 tech*)          | 914                    | 1,730                          |
| (evaluat* W/5 tech*)          | 914                    | 1,730                          |
| (media pre/2 lab)             | 3,418                  | 5,083                          |
| approx* W/10 precis*          | 813                    | 3,717                          |
| approx* W/3 process*          | 761                    | 4,946                          |
| approximat* pre/3<br>comput*  | 7,410                  | 11,951                         |
| approximat* pre/3<br>process* | 647                    | 4,723                          |
| approximat* W/3<br>comput*    | 7,564                  | 12,997                         |
| approximat* W/3<br>process*   | 727                    | 4,861                          |
| ASIC*                         | 5,758                  | 12,042                         |
| Astro                         | 617                    | 721                            |
| BAE                           | 5,819                  | 8,952                          |
| baesystems                    | 865                    | 1,486                          |
| Blueshift*                    | 1,745                  | 2,549                          |

|                                     |       |        |
|-------------------------------------|-------|--------|
| Cadence*                            | 3,116 | 4,796  |
| CAVE                                | 3,383 | 4,020  |
| Colwell                             | 786   | 1,217  |
| DARPA w/25 agree*                   | 1,020 | 1,660  |
| DARPA w/25 collaborat*              | 538   | 904    |
| DARPA w/25 consider*                | 433   | 704    |
| DARPA w/25 evaluat*                 | 697   | 1,269  |
| DARPA w/25 fund*                    | 3,393 | 6,345  |
| DARPA w/25 meet*                    | 1,354 | 1,812  |
| DARPA w/25 project*                 | 1,509 | 2,705  |
| DARPA w/25 propos*                  | 1,482 | 1,976  |
| DARPA w/25 report*                  | 650   | 1,041  |
| DARPA w/25 review*                  | 980   | 1,819  |
| DARPA w/25 test*                    | 793   | 1,324  |
| Dean                                | 759   | 1,346  |
| digital w/5 deterministic emulator* | 635   | 1,374  |
| exponent w/25 mantissa              | 4,231 | 10,835 |
| exponent w/25 precis*               | 688   | 2,954  |
| exponent w/25 range                 | 293   | 2,120  |
| float* W/3 arithmet*                | 367   | 1,007  |
| float* W/3 operat*                  | 1,791 | 8,132  |
| float* w/5 core                     | 890   | 2,067  |
| float* W/5 core                     | 247   | 1,594  |
| float* w/5 operat*                  | 247   | 1,594  |
| float* w/5 operat*                  | 1,346 | 2,940  |
| FPGA*                               | 5,610 | 13,717 |
| Fujitsu w/25 agree*                 | 536   | 1,042  |
| GlobalFoundries                     | 716   | 1,921  |
| google* w/25 agree*                 | 322   | 541    |

|                                |        |        |
|--------------------------------|--------|--------|
| google* w/25 bf*               | 318    | 725    |
| google* w/25 brain             | 326    | 521    |
| google* w/25 collaborat*       | 218    | 313    |
| google* w/25 consider*         | 219    | 292    |
| google* w/25 deal              | 180    | 240    |
| google* w/25 evaluat*          | 126    | 185    |
| google* w/25 fund*             | 272    | 869    |
| google* w/25 invest*           | 164    | 240    |
| google* w/25 licens*           | 217    | 352    |
| google* w/25 meet*             | 707    | 1,125  |
| google* w/25 patent            | 354    | 743    |
| google* w/25 project*          | 314    | 714    |
| google* w/25 propos*           | 164    | 204    |
| google* w/25 report*           | 132    | 326    |
| google* w/25 review*           | 211    | 298    |
| google* w/25 tensor            | 162    | 319    |
| google* w/25 test*             | 197    | 516    |
| google* w/25 TPU               | 418    | 887    |
| Hammerstrom                    | 2,011  | 2,658  |
| input* w/5 "non-deterministic" | 141    | 330    |
| input* w/5 deterministic       | 201    | 631    |
| Intrinsic                      | 14,819 | 19,112 |
| Kanade                         | 1,118  | 2,347  |
| Kent                           | 2,381  | 3,512  |
| kjarnold                       | 2,010  | 2,399  |
| licens* w/10 patent            | 1,042  | 1,786  |
| mantissa*                      | 893    | 3,492  |
| mass* pre/2 institute          | 1,162  | 2,318  |
| mass* W/2 institute            | 1,166  | 2,324  |

|                              |       |       |
|------------------------------|-------|-------|
| media W/2 lab                | 3,418 | 5,083 |
| MOSIS                        | 1,819 | 3,230 |
| Office w/3 Naval             | 582   | 1,181 |
| ONR                          | 4,940 | 6,760 |
| OpenEXR                      | 233   | 535   |
| OpenGL                       | 335   | 888   |
| Plotkin                      | 5,277 | 7,151 |
| processing pre/2<br>element* | 2,817 | 8,828 |
| processing W/2<br>element*   | 2,886 | 9,181 |
| Stecyk                       | 5,937 | 7,422 |
| Struever                     | 1,500 | 1,706 |
| Swetha                       | 1,301 | 2,382 |
| systolic*                    | 211   | 469   |
| table* W/10 *bit             | 206   | 629   |
| table* W/10 bit*             | 431   | 3,519 |
| table* W/10 log*             | 255   | 2,710 |
| Takeshi                      | 115   | 1,103 |
| Teller                       | 486   | 571   |
| Tenenbaum                    | 636   | 1,283 |
| Tensor*                      | 1,022 | 2,379 |
| TPU*                         | 927   | 1,494 |
| USC                          | 517   | 1,095 |
| Varadarajan                  | 412   | 1,913 |
| Vertex*                      | 204   | 3,278 |
| VLSI                         | 556   | 2,526 |
| Xilinx                       | 1,819 | 5,153 |

**(Intrinsix) Kent Arnold – Custodial Email Search Results**

|      |       |       |
|------|-------|-------|
| Kent | 1,738 | 1,918 |
|------|-------|-------|

|          |       |       |
|----------|-------|-------|
| kjarnold | 1,844 | 1,939 |
| Stecyk   | 755   | 861   |
| ASIC*    | 543   | 582   |
| Cadence* | 512   | 555   |

**(Intrinsix) Mark Beal – Custodial Email Search Results**

|          |       |       |
|----------|-------|-------|
| Kent     | 907   | 1,059 |
| kjarnold | 900   | 986   |
| Stecyk   | 2,607 | 2,862 |
| ASIC*    | 937   | 1,084 |
| Cadence* | 805   | 893   |

**(Intrinsix) Steve Stecyk – Custodial Email Search Results**

|          |       |       |
|----------|-------|-------|
| Kent     | 863   | 1,012 |
| kjarnold | 758   | 848   |
| Stecyk   | 4,779 | 5,285 |
| ASIC*    | 1,362 | 1,693 |
| Cadence* | 885   | 1,051 |